

Material Safety Data Sheet

File No.: EBO2512172-M498

Date of Issue: January 4, 2026

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1. Identification of Substance

Product Details

Product Name: SEALED LEAD-ACID BATTERY

Product Brand:



Product Model: 12V7Ah, 4V4Ah, 4V4.5Ah, 4V10Ah, 6V1.2Ah, 6V1.3Ah, 6V2.8Ah, 6V3.2Ah, 6V3.3Ah, 6V4Ah, 6V4.5Ah, 6V5Ah, 6V6Ah, 6V7Ah, 6V7.5Ah, 6V8Ah, 6V10Ah, 6V12Ah, 6V14Ah, 12V0.8Ah, 12V1.2Ah, 12V1.3Ah, 12V1.5Ah, 12V1.8Ah, 12V2Ah, 12V2.2Ah, 12V2.3Ah, 12V2.4Ah, 12V2.6Ah, 12V2.7Ah, 12V2.8Ah, 12V2.9Ah, 12V3Ah, 12V3.2Ah, 12V3.3Ah, 12V1.4Ah, 12V3.8Ah, 12V4Ah, 12V4.2Ah, 12V4.5Ah, 12V5Ah, 12V5.5Ah, 12V6Ah, 12V6.5Ah, 12V7.2Ah, 12V7.5Ah, 12V8Ah, 12V8.5Ah, 12V9Ah, 12V10Ah, 12V12Ah, 12V13Ah, 12V14Ah, 12V15Ah, 12V17Ah, 12V18Ah, 12V18.5Ah, 12V20Ah, 12V22Ah, 12V24Ah, 12V25Ah, 12V26Ah, 12V28Ah, 6V65Ah, 6V100Ah, 6V150Ah, 6V180Ah, 6V200Ah, 12V33Ah, 12V35Ah, 12V38Ah, 12V40Ah, 12V42Ah, 12V45Ah, 12V50Ah, 12V55Ah, 12V53Ah, 12V65Ah, 12V70Ah, 12V75Ah, 12V80Ah, 12V90Ah, 12V100Ah, 12V110Ah, 12V120Ah, 12V135Ah, 12V150Ah, 12V160Ah, 12V170Ah, 12V180Ah, 12V200Ah, 12V230Ah, 12V250Ah, 12V260Ah, 2V100Ah, 2V150Ah, 2V200Ah, 2V300Ah, 2V350Ah, 2V400Ah, 2V450Ah, 2V500Ah, 2V600Ah, 2V800Ah, 2V1000Ah, 2V1200Ah, 2V1500Ah, 2V2000Ah, 2V3000Ah, 12V60Ah, 12V105Ah, 12V125Ah, 12V175Ah, 12V95Ah, 24V3.5Ah, 24V4Ah, , 24V5Ah, 24V8Ah, 24V14Ah, 24V24Ah, 24V18Ah, 12V8.2Ah

Manufacturer/Supplier By:

SHENZHEN POWER KINGDOM CO., LTD.

101, No.49, Baigongao Industrial Zone, Xikeng New Village, Fucheng Street, Longhua District, Shenzhen, China
Emergency Tel: +86-755-28024796

2. Hazards Identification

Hazard description:

This product is a nonspillable lead acid battery. The information below is intended for repeated and prolonged contact with the battery contents in an occupational setting. In the absence of an incident or accident, is not likely to apply to normal product use. However, this Material Safety Data Sheet contains valuable information critical to the safe handling and proper use of this product. This Material Safety Data Sheet should be retained and available for employees and other users of this product. Always be aware of the risk of fire,

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explosion, or burns. Do not short circuit the (+) and (-) terminals with any other metals. Do not disassemble or modify the battery. Do not solder a battery directly. Keep away from fire or open flame.

3. Composition/Data on Components

COMPONENT	CAS No.	% By wt.
Lead and lead oxide	7439-92-1	61.97%
Electrolytic solution	7664-93-9	23.88%
Glass fibre separator	65997-17-3	3%
ABS	9003-56-9	11.15%

4. First aid Measures

Inhalation:	Exposure to contents of an open or damaged battery: Move injured person into fresh air and keep person under observation. Get medical attention if any discomfort continues.
Skin contact:	Exposure to contents of an open or damaged battery: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists.
Eye contact:	Exposure to contents of an open or damaged battery: Flush thoroughly with water for at least 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Get medical attention if irritation develops and persists.
Ingestion:	Exposure to contents of an open or damaged battery: Rinse mouth thoroughly with water. Get medical attention immediately.

5. Fire Fighting Measures

Extinguishing Media:	Extinguish fire using extinguishing agents suitable for the surrounding fire.
Unsuitable extinguishing media:	Do NOT use water on live electrical circuits.
Specific hazards arising from the chemical:	Batteries evolve flammable hydrogen gas during charging and may increase fire risk. Containers may explode when heated.
Unusual Fire and Explosion Hazards:	Full face visor or safety goggles; Respiratory equipment or self-contained breathing apparatus (SCBA); Full acid resistant protective clothing must be worn in fire-fighting conditions.

6. Accidental Release Measures

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Personal Precautions:	Use personal protective equipment as required.
Protective Measures to be Taken if Material is Released or Spilled:	Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of un-neutralized acid to sewer. Acid must be managed in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.
Waste Disposal Method:	Dispose of as a hazardous waste. Dispose of in accordance with applicable local, state and federal regulations.

7. Handling and Storage

Handling:	Unless involved in recycling operations, do not breach the casing or empty the contents of the battery. Handle carefully and avoid tipping, which may allow electrolyte leakage. There may be increasing risk of electric shock from strings of connected batteries. Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits. Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.
Storage:	Store batteries under roof in cool, dry, well-ventilated areas separated from incompatible materials and from activities that may create flames, spark, or heat. Store on smooth, impervious surfaces provided with measures for liquid containment in the event of electrolyte spills. Keep away from metallic objects that could bridge the terminals on a battery and create a dangerous short-circuit. Room ventilation is required for batteries utilized for standby power generation. Never recharge batteries in an unventilated, enclosed space.
Charging:	There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas. Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby. Wear face and eye protection when near batteries being charged.

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8. Exposure Controls and Personal Protection

Engineering Controls (Ventilation):	Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously, do not tip to avoid spills. Make certain vent caps are on securely. If battery case is damaged, avoid bodily contact with internal components. Wear protective clothing, eye and face protection, when filling, charging, or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge batteries in areas with adequate ventilation. General dilution ventilation is acceptable.
Respiratory Protection (NIOSH/MSHA approved):	NONE REQUIRED FOR NORMAL HANDLING OF THE FINISHED PRODUCT. When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.
Skin Protection:	NONE REQUIRED FOR NORMAL HANDLING OF THE FINISHED PRODUCT. If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing and boots.
Eye Protection:	NONE REQUIRED FOR NORMAL HANDLING OF THE FINISHED PRODUCT. If necessary to handle damaged product where exposure to the organic electrolyte is a possibility, chemical splash goggles and a face shield are recommended.
Other Protection:	In areas where water and sulfuric acid solutions are handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply. Chemically impervious apron and face shield recommended when adding water or electrolyte to batteries. Wash Hands after handling.

9. Physical and Chemical Properties

Form:	Battery
Color:	Black
Odor:	Odorless
Voltage:	12V
Capacity:	7Ah
Watt-hour:	84WH
Boiling Point:	No data available
Melting Point:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Solubility In Water:	No data available

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Specific Gravity (H₂O = 1):	No data available
pH:	No data available
Freezing Point:	No data available
Molecular Weight:	Mixture, Not Applicable

10. Stability and Reactivity

Stability:	Stable.
Hazardous Decomposition	
Products:	N/A.
Conditions to Avoid:	Heating, mechanical abuse and electrical abuse.
Hazardous Polymerization:	If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.

11. Toxicological Information

Under normal conditions of use, this product does not present a health hazard. The following information is provided for organic electrolyte and lead exposure that may occur due to container breakage or under extreme conditions such as fire. Organic electrolyte – reacts with moisture/water to produce hydrofluoric acid in trace quantities. Hydrofluoric acid is extremely corrosive and toxic. In severe exposures it acts as a systemic poison and causes severe burns. The reaction may be delayed. Any contact with this material, even minor, requires immediate medical attention. Inhalation, skin contact and eye contact are possible when the battery is opened. Exposure to internal contents, the corrosive fumes will be very irritating to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

12. Ecological Information

Environmental Impact:

Proper use and disposal of the battery will not harm the environment.
Dispose of the battery, away from water, rain and snow.

13. Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

14. Transport Information

Wet, non-spillable batteries do not need to be shipped and transported as fully-regulated Class 8 Corrosive hazardous materials / dangerous goods when tested, packaged and marked in accordance

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with the following regulations:

IATA Dangerous Goods Regulations (DGR) 2026 67th Edition	Excepted from the dangerous goods regulations because the batteries meet the requirements of Packing Instruction 872 and Special Provisions A67 of the International Air Transportation Association Dangerous goods Regulations and International Civil Aviation Organization (ICAO) Technical Instructions. Battery Terminals must be protected against short circuits. The words "NOT RESTRICTED", SPECIAL PROVISION A67" must be provided on an airway bill when air waybill is issued.
IMDG Code 2024 Edition (Amendment 42-24)	Excepted from the dangerous goods regulations for transport by sea because the batteries meet the requirements of Special Provision 238 of the International Maritime Dangerous Goods. Battery terminals must be protected against short circuits.
IMO	The product is not subject to IMO IMDG Code according to special provision 238.
ADR / RID	Land Transport: Not applicable
U.S. DOT:	Our non-spillable lead acid batteries are under the U.S. Department of Transportation's (DOT) hazardous materials regulations but are excepted from these regulations since they meet all of the following requirements found at 49 CFR 173.159(f) and 49 CFR 173.159a The batteries are excepted from regulation if they have been tested in accordance with the vibration and pressure differential tests found in 49 CFR 173.159(f) and "rupture test" found at 49 CFR 173.159a; When offered for transport, the batteries must be protected against short circuits and securely packaged in accordance with 49 CFR 173.159a; and The batteries and outer packaging must be marked NON-SPILLABLE BATTERY or NON-SPILLABLE as required by 49 CFR 173.159a

If the regulations listed above are not met, then Batteries, wet, nonspillable (UN2800) are regulated as Class 8 Corrosive hazardous materials / dangerous goods by the U.S. Department of Transportation (DOT) and international dangerous goods regulatory authorities pursuant to the IATA Dangerous Goods Regulations and IMDG Code

15. Regulations

«Dangerous Goods Regulation»

«Recommendations on the Transport of Dangerous Goods Model Regulations»

«International Maritime Dangerous Goods»

«Technical Instructions for the Safe Transport of Dangerous Goods»

«Classification and code of dangerous goods»

OSHA Hazard Communication Standard Status

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Toxic Substances Control Act (TSCA) Status

SARA Title III

RCRA

In accordance with all Federal, State and Local laws

16. Other Information

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. Accordingly, EBO Testing Center will not be responsible for damages resulting from use of or reliance upon this information.

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